

FORM PTO-1449

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10/516,072INFORMATION DISCLOSURE STATEMENT  
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Applicant  
Toshohide KOBAYASHI et al.Filing Date  
I.A. Filed May 30, 2003Group  
1655 1657

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/P.M./	5 6 9 1 1 5 9	11/25/97	MIYAUCHI et al.			

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

/P.M./	L.F. AMOROSA et al., Atherosclerosis, Vol. 64, pp. 117-123 (1987). <span style="float: right;">incomplete reference</span>
	<del>Hideki ISHIWATA et al., Chem. Pharm. Bull., Vol. 43, No. 6, pp. 1005-1011 (1995).</del> <span style="float: right;">pages missing</span>
/P.M./	Hideki ISHIWATA et al., Biochimica et Biophysica Acta, Vol. 1359, pp. 123-135 (1997).
	Yiannis A. IOANNOU, Nature Reviews: Molecular Cell Biology, Vol. 2, pp. 657-668 (2001).
	Patel et al., Biochimica et Biophysica Acta, 797(1984)20-26.
	Igarashi et al., The Journal of Biological Chemistry, Vol. 270, No. 49, Issue of December 8, pp. 29075-29078, 1995.
	Miyazawa et al., Molecular Immunology, Vol. 25, No. 10, 1025-1031, 1988.
	Yamji et al., The Journal of Biological Chemistry, Vol. 273, No. 9, Issue of February 27, pp. 5300-5306, 1998.
	Brown et al., Cell, Vol. 68, 533-544, February 7, 1992.
	Wang et al., Biophysical Journal, Vol. 79, September 2000, pp. 1478-1489.
	Nichols et al., Biochemistry, 1982, 21, 1720-1726.
	Kobayashi et al., Nature Cell Biology, Vol. 1, June 1999, pages 113-118.
	Sokol et al., Igarashi et al., The Journal of Biological Chemistry, Vol. 263, No. 7, Issue of March 5, pp. 3411-3417, 1988.
	Prescott et al., European Journal of Cell Biology, 72, 238-246, March 1977.
	Pentchev et al., Biochimica et Biophysica Acta, Vol. 1225, pp. 235-243 (1994).
	Ichikawa et al., Proc. Natl. Acad. Sci. USA, Vol. 91, pp. 2703-2707, March 1994.
	Parton, The Journal of Histochemistry and Cytochemistry, Vol. 42, No. 2, pp. 155-166, 1994.
	Rothblat et al., Journal of Lipid Research, Vol. 40, 1999, pp. 781-796.
	Waugh et al., Biochemical Society Transactions (2001), Volume 29, part 4, pp. 509-511.
	Roepstorff et al., The Journal Of Biological Chemistry, Vol. 277, No. 21, Issue of May 24, pp. 18594-18960, 2002.
	Ringerike et al., Journal of Cell Science, 115(6) 1331-1340, 2002.
/P.M./	Aman et al., The Journal Of Biological Chemistry, Vol. 276, No. 49, Issue of December 7, pp. 46371-46378, 2001.


EXAMINER

/Paul Martin/

DATE CONSIDERED

12/13/2007

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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<b>FOREIGN PATENT DOCUMENTS</b>								
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<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>								
/P.M./		Lange et al., The Journal Of Biological Chemistry, Vol. 275, No. 23, Issue of June 9, pp. 17468-17475, 2000.						
		Cruz et al., The Journal Of Biological Chemistry, Vol. 275, No. 6, Issue of February 11, pp. 4013-4021, 2000.						
		Mukherjee et al., Biophysical Journal, Vol. 75, October 1998, pp. 1915-1925.						
		Hao et al., The Journal Of Biological Chemistry, Vol. 277, No. 1, Issue of January 4, pp. 609-617, 2002.						
		Waheed et al., PNAS, April 24, 2001, Vol. 98, No. 9, pp. 4926-4931.						
		Mobi <del>u</del> s et al., The Journal of Histochemistry & Cytochemistry, Vol. 50(1): 43-55, 2002.						
		Pagano et al., The Journal of Cell Biology, Vol. 91, December 1981, pp. 872-877.						
/P.M./		Pagano et al., The Journal Of Biological Chemistry, Vol. 260, No. 3, Issue of February 10, pp. 1909-1916, 1985.						
EXAMINER		/Paul Martin/			DATE CONSIDERED		12/13/2007	

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1	L.P. AMOROSA et al., "The Effects of Polyoxyethylated Cholesterol Feeding on Hepatic Cholesterol Synthesis and Intestinal Cholesterol Absorption in Rats", <i>Atherosclerosis</i> , Vol. 64, pp. 117-123 (1987).
2	Hideki ISHIWATA et al., "Physical-Chemistry Characteristics and Biodistribution of Poly(ethylene glycol)-Coated Liposomes Using Poly(oxyethylene) Cholesteryl Ether", <i>Chem. Pharm. Bull.</i> , Vol. 43, No. 6, pp.1005-1011 (1995).
3	Hideki ISHIWATA et al., "Physical-Chemistry Characteristics and Biodistribution of Poly(ethylene glycol)-Coated Liposomes Using Poly(oxyethylene) Cholesteryl Ether", <i>Chem. Pharm. Bull.</i> , Vol. 43, No. 6, pp.1005-1011 (1995);
4	Mark S. BRETSCHER et al., "Cholesterol and the Golgi Apparatus", <i>Science</i> , Vol. 261, pp. 1280-1281 (1993).
5	Anton RIETVELD et al., "The Differential Miscibility of Lipids as the Basis for the Formation of Functional Membrane Rafts", <i>Biochimica et Biophysica Acta</i> , Vol. 1376, pp. 467-479 (1998).
6	Rhoderick E. BROWN et al., "Sphingolipid Organization in Biomembranes: What Physical Studies of Model Membranes Reveal", <i>Journal of Cell Science</i> , Vol. 111, pp. 1-9 (1998).
7	Teymuraz V. KURZCHALIA et al., "Membrane Microdomains and Caveolae", <i>Curr. Opin. Cell. Biol.</i> , Vol. 11, pp. 424-431 (1999).
8	Elina IKONEN et al., "Caveolins and Cellular Cholesterol Balance", <i>Traffic</i> , Vol. 1, pp. 212-217 (2000).
9	D.A. BROWN et al., "Functions of Lipid Rafts in Biological Membranes", <i>Annu. Rev. Cell Dev. Biol.</i> , Vol. 14, pp. 111-136 (1998).
10	Kai SIMONS et al., "Lipid Rafts and Signal Transduction", <i>Nature Reviews: Molecular Cell Biology</i> , Vol. 1, pp. 31-41 (2000).
11	Linda J. PIKE et al., "Cholesterol Depletion Delocalizes Phosphatidylinositol Bisphosphate and Inhibits Hormone-Stimulated Phosphatidylinositol Turnover", <i>The Journal of Biological Chemistry</i> , Vol. 273, No. 35, pp. 22298-22304 (1998).
12	PRALLE et al., "Sphingolipid-Cholesterol Rafts Diffuse as Small Entities in the Plasma Membrane of Mammalian Cells", <i>The Journal of Cell Biology</i> , Vol. 148, No. 5, pp. 997-1007 (2000).
13	Katja RÖPER et al., "Retention of Prominin in Microvilli Reveals Distinct Cholesterol-Based Lipid Microdomains in the Apical Plasma Membrane", <i>Nature Cell Biology</i> , Vol. 2, pp. 582-592 (2000).
14	Michael S. BROWN et al., "A Proteolytic Pathway that Controls the Cholesterol Content of Membranes, Cells, and Blood", <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 96 pp. 11041-11048 (1999).
15	Kai SIMONS et al., "How Cells Handle Cholesterol", <i>Science</i> , Vol. 290, pp. 1721-1726 (2000).
16	Yiannis A. IOANNOU, "Multidrug Permeases and Subcellular Cholesterol Transport", <i>Nature Reviews: Molecular Cell Biology</i> , Vol. 2, pp. 657-668 (2001)
17	Peter G. PENTCHEV et al., "The Niemann-Pick C Lesion and its Relationship to the Intracellular Distribution and Utilization of LDL Cholesterol", <i>Biochimica et Biophysica Acta</i> , Vol. 1225, pp. 235-243 (1994)
18	Laura LISCUM, "Niemann-Pick Type C Mutations Cause Lipid Traffic Jam", <i>Traffic</i> , Vol. 1, pp. 218-225 (2000)
19	Toshihide KOBAYASHI et al., "Late Endosomal Membranes Rich in Lysobisphosphatidic Acid Regulate Cholesterol Transport", <i>Nature Cell Biology</i> , Vol. 1, pp. 113-118 (1999).
20	akeshi BABA et al., "Clathrin-Dependent and Clathrin-Independent Endocytosis are Differently Sensitive to Insertion of Poly (Ethylene Glycol)-Derivatized Cholesterol in the Plasma Membrane", <i>Traffic</i> , Vol. 2, pp. 507-512 (2001).
21	English Language Abstract of JP 8-131179.
8	- 1 3 1 1 9 7 11/25/97 JAPAN